PATEN. JOOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231
	ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 07 June 2000 (07.06.00)	in its capacity as elected Office
International application No. PCT/US99/27452	Applicant's or agent's file reference 06510/056WO3
International filing date (day/month/year) 17 November 1999 (17.11.99)	Priority date (day/month/year) 25 November 1998 (25.11.98)
Applicant	
PRUSINER, Stanley, B.	
1. The designated Office is hereby notified of its election made in the demand filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effection filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effecting later election filed with the International Preliminar 25 April 2000 in a notice effe	y Examining Authority on: (25.04.00) national Bureau on:
	Authorized officer
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Juan Cruz
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PCT

REC'D 0 9 MAR 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORTED

(PCT Article 36 and Rule 70)

Applicant's o	agent's file reference		See Notification of Transmittal of International						
06510/056WO3		FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)						
International	application No.	International filing date (day/monti	h/year) Priority date (day/month/year)						
PCT/US99)/27452	17/11/1999	25/11/1998						
International Patent Classification (IPC) or national classification and IPC G01N33/68									
Applicant									
THE REG	ENTS OF UNIVERSITY C	F CALIFORNIA ET AL							
1. This int	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This RI	EPORT consists of a total of	9 sheets, including this cover s	heet.						
be (se	en amended and are the bas	sis for this report and/or sheets of the Administrative Instruct	ne description, claims and/or drawings which have containing rectifications made before this Authority ions under the PCT).						
3. This re	port contains indications rela	ating to the following items:							
t	Basis of the report								
- II	☐ Priority								
111	☐ Non-establishment of o	ppinion with regard to novelty, in	ventive step and industrial applicability						
١٧	☐ Lack of unity of invention								
V		nder Article 35(2) with regard to ons suporting such statement	novelty, inventive step or industrial applicability;						
VI	☐ Certain documents cite	ed							
VII	☑ Certain defects in the in	nternational application							
VIII	☑ Certain observations o	n the international application							
Date of subm	ission of the demand	Date of	completion of this report						
25/04/200	0	06.03.2	2001						
	ailing address of the internationa xamining authority:	al Authori	zed officer						
)	D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52365 Fax: +49 89 2399 - 4465	. 1	one No. +49 89 2399 7328						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/27452

ł.	Basis	of t	he	ren	rt
۱.	Dasis	VI 1		160	

1.	res _i the	his report has been drawn on the basis of (substitute sneets which have been furnished to the receiving Office is esponse to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to be report since they do not contain amendments (Rules 70.16 and 70.17).): sescription, pages:							
	1-3	5	as originally filed						
	Cla	ims, No.:							
	1-2	8	as originally filed						
2.			juage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.						
	The	se elements were a	available or furnished to this Authority in the following language: , which is:						
		the language of pu	translation furnished for the purposes of the international search (under Rule 23.1(b)). ublication of the international application (under Rule 48.3(b)). translation furnished for the purposes of international preliminary examination (under Rule						
3.		n regard to any nuc	electide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:						
		contained in the in	ternational application in written form.						
		filed together with	the international application in computer readable form.						
		furnished subsequ	ently to this Authority in written form.						
		furnished subsequ	ently to this Authority in computer readable form.						
			t the subsequently furnished written sequence listing does not go beyond the disclosure in pplication as filed has been furnished.						
		The statement that listing has been fur	t the information recorded in computer readable form is identical to the written sequence rnished.						
4.	The	amendments have	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.			en established as if (some of) the amendments had not been made, since they have been reyond the disclosure as filed (Rule 70.2(c)):						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/27452

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Additional observations, if necessary:						
١٧.	Lac	k of unity of invention					
1.	In re	esponse to the invitation	to restric	ct or pay	additional fees the applicant has:		
		restricted the claims.					
		paid additional fees.					
		paid additional fees und	er prote	st.			
	Ø	neither restricted nor pa	id additi	onal fees	i.		
2.		This Authority found that 68.1, not to invite the ap			t of unity of invention is not complied and chose, according to Rule or pay additional fees.		
3.	This	Authority considers that	the req	uirement	of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is		
		complied with.					
	Ø	not complied with for the see separate sheet	e followii	ng reasor	ns:		
4.		sequently, the following prination in establishing t			national application were the subject of international preliminary		
		all parts.					
	×	the parts relating to clair	ns Nos.	1-10, 17	-19 and 20-28.		
٧.		soned statement under			ith regard to novelty, inventive step or industrial applicability; h statement		
1.	Stat	ement					
	Nov	elty (N)	Yes: No:	Claims Claims	1-10, 17-28		
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-10, 17-28		
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-10, 17-28		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/27452

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item IV

Lack of unity of invention

The present application lacks the required unity-of-invention for the following reasons:

Reference is made to the following document:

D1: US-A-5 792 901 (SCOTT MICHAEL R ET AL) 11 August 1998, cited in the application on p. 3, 5, 10, 23, 28 and 29 of the description.

The prior art document D1 discloses a standardized prion preparation, produced from harvested brain tissue from mammals which have their genome manipulated so that they are susceptible to infection with a prion which generally only infects a genetically diverse animal (col. 6, lines 1-10). Genetically diverse test animals may be human, cow or sheep (col. 6, line 60). Human polymorphisms, e.g. codon 129 Met/Val and pathogenic human mutations in the PrP gene, e.g. 2 octarepeat insert are also mentioned (col. 20, Mutation Table). The invention claimed in D1 also includes transgenic animals with their genome changed to include higher copy numbers of the PrP gene of the genetically diverse test animal (col. 19, lines 1-14). Prions produced in the transgenic mice Tg(HuPrP)/Prnp^{0/0} and Tg(MHu2M) are also given as examples (col. 9, line 24 and 38, respectively).

Independent **claim 1** relates to a standardized prion preparation containing prions from a known strain present in a known amount and causing disease in a known species of animal. Independent **claim 11** concerns a prion protein standard composition containing isolated exogenous prions from transgenic mice together with a standard in brain homogenate from the animal that is normally infected with the prions used as a carrier.

The only technical features common to claims 1 and 11 is that they are prion protein standard compositions that contain prions and a carrier. However, document D1 discloses a standardized prion preparation with the same features. Therefore, claims 1-10 and 17-19 which are directed to the preparation of a prion standard according to claim 1 are not so linked to claims 11-16 as to form a single

general inventive concept (Rule 13.1 PCT) as they appear not to be linked by a new special technical feature in the sense of Rule 13.2 PCT when taking into account the state of the art. Thus, the present application lacks unity of invention.

Therefore, two separate inventions are identified in the present application:

1 - Claims 1-10 and 17-19:

A standardized prion preparation and methods of producing such preparations comprising prions and a carrier of a known composition which is different from brain tissue of the genetically diverse animal which the prions would infect in the animal's natural state, e.g. brain tissue of mice or water.

2 - Claims 11-16:

A prion protein standard composition comprising prions and brain homogenate from the genetically diverse animal which the prions would normally infect.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following document :
 - D1: US-A-5 792 901 (SCOTT MICHAEL R ET AL) 11 August 1998, cited in the application on p. 3, 5, 10, 23, 28 and 29 of the description
- 2 Novelty Art. 33(1) and (2) PCT:
- 2.1 Claim 1 discloses a standardized prion preparation containing prions from a known strain present in a known amount and causing disease in a known species of animal. Since no standardized prion preparation characterized by a known amount of prions has already been described in the available prior art documents, claim 1 can be considered as new.

- <u>Claims 2-10</u> are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty.
- 2.2 The method for preparing the prion protein standard disclosed in <u>claim 17</u> is characterized by the inoculation of the host animals with a known amount of prions. For the reasons mentioned above (see point 2.1), claim 17 and 18-19 dependent thereon can therefore be considered as new.
- 2.3 Since none of the available prior art documents mention a calibration method for a prion assay, the subject-matter of claims 20-22 appears to be novel.
- 2.4 The same applies to the subject-matter of independent <u>claim 23</u> concerning a prion protein standard kit and <u>claims 24-28</u> dependent thereon.
- 3 Inventive step Art. 33(1) and (3) PCT:
- 3.1 As mentioned above (see Item IV), the closest prior art document D1 discloses methods for the detection of prions in a sample using a standardized prion preparation generated by transgenic mice methodology. In the light of D1, the problem underlying the present application is to be seen in providing alternative prion protein standard compositions and methods for calibrating prion protein assays. The invention also provides a prion protein standard kit comprising a plurality of protein preparations.
- 3.2 The subject-matter of <u>claims 1 and 2</u> differs from document D1 by the known amount of prions present in the preparation. This distinguishing feature results in an improved accuracy of the standardized preparation. However, the skilled person who wishes to improve the assay reliability would regard it as a normal design procedure to include this feature in the prion preparation claimed in D1. Furthermore, the standardized prion preparation disclosed in document D1 also shares the technical features revealed in <u>claims 3-10</u> (see Item V-1). <u>Claims 1-10</u> can therefore not be regarded as inventive.

- 3.3 The subject-matter of <u>claims 17-19</u> differs from D1 by the inoculation of the host animals with a known amount of prions, which is arbitrarily defined as a known number of infection units. As mentioned above (see point 3.2), this technical feature is considered an obvious option to improve the method for the preparation of a standard composition as claimed in D1. Thus, claims 17-19 do not appear to be inventive.
- 3.4 The method of calibration of a prion protein assay and the prion protein kit disclosed in the present application cannot be considered as inventive since they are characterized by technical features that fall within the scope of customary practice followed by person skilled in the art (e.g. determining a true value of protein concentration and accordingly adjusting the assay value; the combinations of features as reported in claims 24-28). Thus, the subject-matter of claims 20-28 does not involve an inventive step.
- 4 Industrial applicability Art. 33(1) and (4) PCT:

The subject-matter of claims 1-10 and 17-28 appears to be industrially applicable.

Re Item VII

Certain defects in the international application

- 1. The expression "incorporated herein by reference" *e.g.* on p. 3 lines 3-4 of the description is not allowed as the application should be self-understanding (Art. 5 and Rule 9.1-iv PCT, see also PCT Guidelines III-4.3a).
- 2. The term "and the like" employed *e.g.* on p. 4 line 1 renders the description unclear (Art. 5 PCT, see also PCT Guidelines III-4.3a).
- 3. The vague and imprecise statement "scope of the invention" e.g. on p. 7 line 14 of the description implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity when

EXAMINATION REPORT - SEPARATE SHEET

used to interpret them (Art. 6 PCT, see also PCT Guidelines III-4.3a). Such expressions are not allowed.

4. The paragraph corresponding to lines 22-26 on p. 7 of the description leads to confusion about the content of the application (Art. 5 and Rule 9.1-iv PCT).

Re Item VIII

Certain observations on the international application

- 1. According to the description (p. 4, lines 12-16), "the brain preparation is of a species genetically similar and more preferably the same as the species susceptible to infection". In contrast, claims 1 and 3 disclose a "carrier of a known composition which is different from brain tissue of the mammal which the prions would infect". The subject-matter of said claims therefore appears to be inconsistent with the description (Art. 6 PCT, see also PCT Guidelines III-4.3).
- According to claim 1, the prions contained in the preparation are of a known strain. However, the subject-matter of the dependent claim 7 specifies that the prions are of different strains obtained from 10 or more animals. Claim 7 therefore appears to be inconsistent with the subject-matter of claim 1 (Art. 6 PCT, PCT Guidelines III-4.3).
- 3. The statement "known composition" in claim 1 is not clearly specified and renders the scope of the claim unclear (Art. 6 PCT).
- 4. The term "about" employed in claims 18 and 19 renders the said claims unclear (Art. 6 PCT, see also PCT Guidelines III-4.3a).

International & Cation No PCT/US 99/27452

Information on patent family members

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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P.B.5818 - Patentlaan 2 2280 HV Rijswijk (ZH) \$\frac{1}{2}\$ +31 70 340 2040 TX 31651 epo nl FAX +31 70 340 3016 Europäisches Patentamt

Zweigstelle in Den Haag Recherchenabteilung European Patent Office

Branch at The Hague Search division Office européen des brevets

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Rec'd. 2 5 MAR 2002

Action by......

Datum/Date
25.03.02

Zeichen/Ref./Réf.

Anmeldung Nr/Application No/Demande nº/Patent Nr./Patent No/Brevet nº.

N.79174 DMG

98945791.6-2405-US9817879

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

The Regents of the University of California

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above—mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.



If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 98 94 5791

	DOCUMENTS CONSID	ERED TO BE RELEVANT		,	
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X	13 February 1997 (1 * page 11, line 4 - * page 24, line 8 -	WO 97 04814 A (UNIV CALIFORNIA) 13 February 1997 (1997-02-13) * page 11, line 4 - line 31 * * page 24, line 8 - page 29, line 29 * * page 45, line 11 - page 46, line 14 *			
X	vol. 75, no. 7, 199 XP001061857 XIX Symposium of th Association for Com	R MEDICINE (BERLIN), 7, pages B176-B177, 9e International 9parative Research on d Diseases;Heidelberg, 1997	1-10	TECHNICAL SEARCHED A01K A61K	
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P,X	US 5 763 740 A (TEL 9 June 1998 (1998-0 * claims 1-13 *		1–10		
·	The supplementary search repo set of claims valid and available	rt has been based on the last at the start of the search.			
	Place of search	Date of completion of the search	<u> </u>	Examiner	
	MUNICH	7 March 2002	van	Heusden,	М _
X : parti Y : parti docu A : tech O : non-	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anotiment of the same category mological background written disclosure mediate document	E : earliér patent doc after the filing dat her D : document cited in L : document cited fo	underlying the i ument, but public the application of other reasons	nvention shed on, or	



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 98 94 5791

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A	TELLING G C ET AL: WILD-TYPE AND MUTAN MODULATE NEURODEGEN MICE" GENES AND DEVELOPME NY, US, vol. 10, no. 14, 15 July 1996 (1996- 1736-1750, XP000675 ISSN: 0890-9369 * the whole documen	1-10	TECHNICAL SEARCHED		
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	MUNICH	7 March 2002	van	Heusden,	М
X : particularly relevant if taken alone after the f Y : particularly relevant if combined with another document of the same category A : technological background			underlying the ument, but public the application rother reasons	invention	•



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 98 94 5791

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	- transgenic mice h				
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	PUBLISHERS B.V. AMS	STERDAM, NL,			
	vol. 13, no. /, 1 c pages 264-269, XPO	July 1997 (1997-07-01), 04081447			
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Y: partidocu	icularly relevant if combined with ano ument of the same category		in the application		
A:tech	nological background ~written disclosure	& : member of the		, corresponding	

This annex lists the patent family membersrelating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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nore details about	this annex : see	Official Journal of the E	European	Patent Office, No.	12/82	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 94 5791

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-03-2002

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 06510/056W03		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 99/27452	17/11/1999	25/11/1998
Applicant THE REGENTS OF UNIVERSITY	Y OF CALIFORNIA ET AL	
This International Search Report has be according to Article 18. A copy is being to	en prepared by this international Searching Autransmitted to the international Bureau.	hority and is transmitted to the applicant
This international Search Report consist It is also accompanied by	s of a total of3sheets. y a copy of each prior art document cited in this	report.
1. Basis of the report		
	e international search was carried out on the ba niess otherwise indicated under this item.	sis of the international application in the
the international search (Authority (Rule 23.1(b)).	was carried out on the basis of a translation of t	the international application furnished to this
was carried out on the basis of t	he sequence listing:	nternational application, the international search
<u> </u>	ional application in written form. ternational application in computer readable for	m
H ·	to this Authority in written form.	
	to this Authority in computer readble form.	
the statement that the su	absequently furnished written sequence listing of as filed has been furnished.	loes not go beyond the disclosure in the
the statement that the Infumished	formation recorded in computer readable form I	is identical to the written sequence listing has been
2. Certain claims were for	und unsearchable (See Box I).	
3. Unity of invention is la	cking (see Box ii).	
4. With regard to the title,		
The text is approved as s	submitted by the applicant.	
the text has been establi	ished by this Authority to read as follows:	
5. With regard to the abstract,		
mm.	submitted by the applicant.	
the text has been establi	Ished, according to Rule 38.2(b), by this Author ne date of mailing of this international search re	
6. The figure of the drawings to be put	blished with the abstract is Figure No.	
as suggested by the app	olicant.	None of the figures.
because the applicant fa	illed to suggest a figure.	
because this figure bette	er characterizes the invention.	



International / Jon No PCT/US 99/27452

A CLASSI IPC 7	FICATION OF SUBJECT MATTER G01N33/68 C07K14/47 G01N33/9	6		
According to	o International Patent Classification (IPC) or to both national classifica	ation and IPC		
B. FIELDS	SEARCHED			
Minimum do IPC 7	comentation searched (classification system followed by classification GOIN CO7K	on symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used		
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X Further documents are listed in the continuation of box C. X Patent family members are listed in annex.				
*Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date but later than the priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "E" after document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "S" document member of the international filing date but invention.				
Date of the actual completion of the international search Date of mailing of the international search report 31 March 2000 25/04/2000				
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijawijk Tel. (-31-70) 340-2040, Tx. 31 651 epo nl,		Authorized officer Pellegrini. P		



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